

#### SEQUENCE LISTING

- (1) GENERAL INFORMATION:
  - (i) APPLICANT: Cynader, Max Prasad, Shiv
  - (ii) TITLE OF INVENTION: GENE SEQUENCES ASSOCIATED WITH NEURAL PLASTICITY AND METHODS RELATED THERETO
  - (iii) NUMBER OF SEQUENCES: 132
    - (iv) CORRESPONDENCE ADDRESS:
      - (A) ADDRESSEE: Seed Intellectual Property Law Group PLLC
      - (B) STREET: 701 Fifth Avenue, Suite 6300
      - (C) CITY: Seattle
      - (D) STATE: Washington
      - (E) COUNTRY: USA
      - (F) ZIP: 98104-7092
      - (v) COMPUTER READABLE FORM:
        - (A) MEDIUM TYPE: Floppy disk
        - (B) COMPUTER: IBM PC compatible
        - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
        - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
    - (vi) CURRENT APPLICATION DATA:
      - (A) APPLICATION NUMBER: US
      - (B) FILING DATE: 28-APR-1999
      - (C) CLASSIFICATION:
  - (viii) ATTORNEY/AGENT INFORMATION:
    - (A) NAME: Potter, Jane E. R.
    - (B) REGISTRATION NUMBER: 33,332
    - (C) REFERENCE/DOCKET NUMBER: 230018.401C1
    - (ix) TELECOMMUNICATION INFORMATION:
      - (A) TELEPHONE: (206) 622-4900
      - (B) TELEFAX: (206) 682-6031
- (2) INFORMATION FOR SEQ ID NO:1:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 62 base pairs
    - (B) TYPE: nucleic acid

(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:	
ССТС	GGCTGCC TGTGCCTCAA CCCCACTCCC AGGGAGACCA AAAGCCTTCA TACATCTGAA	60
AТ		62
(2)	INFORMATION FOR SEQ ID NO:2:	
	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 92 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:	
CCCA	ACGGACG AGATGTCTTC GGTGTCCTTG CGTTCGCTAC CAGGTCAAAA TGCAAATCTT	60
CGTG	GAAAACC CTGACGGCA AGACCATCAC CC	92
(2)	INFORMATION FOR SEQ ID NO:3:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 114 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: lznear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:	
тттт	TTTTAA TTGAGAAAGA CATAATGGTT ATGGCATTGG CTTGAAACCA GTTAAACACC	60

GTTTCGATTC CTTCCTTTCT TATTTTAATA GTACGTTAAC	TTGGCTCTTC	AAAT 114	Ī
(2) INFORMATION FOR SEQ ID NO:4:			
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 86 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:			
ATCCATACTT GCTATTTATT TAGGCTTCTA GTTTGGAACA	AAAGGNCAAG	AGTTAAAAAA 60	)
ATGCCAACAT TTCAAGGACC CTTGTT		86	5
(2) INFORMATION FOR SEQ ID NO:5:			
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 112 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:			
CTTCCCCCAC TCATCCCTGC TCTGGTCCCT TGTGCCCCTT	GGCCCTTTAC	CCCAAGCACC 60	)
ACCCCACAGA CTGGGGACCA GCCCCCTCTC CTGCCTATGT	CTCGCCCCAA	AT 112	)
(2) INFORMATION FOR SEQ ID NO:6:			
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 126 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>			

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:	
CCTTCCCTTC CTTACTTTAA TAGTTCGGTA GTACGGANGT TA	AATCTTCA GGTCGGTGGT 60
ACGCAGCCGG GCAACCATGC AATGGATTNA AGGTNGGTAA TGC	GTACAATT GGCCTATGCC 120
CACTTT	126
(2) INFORMATION FOR SEQ ID NO:7:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 121 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:	
CTTTAGAGCG CACTCAGGGG CACTTGNAAG GGCTTCTCAC GAC	GCGTGGCT GTGGCCATCT 60
GTGGAAAGAG CTTCTCGCAG TGNTCGGTNG NNTTATCCCC CAC	CGCCCNTA GNGCACTACT 120
С	121
(2) INFORMATION FOR SEQ ID NO:8:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 94 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

TTAGTTTCAC ATTCAAGGGG CTTATGAAGA GATGCAAGTC AGGATACATA GGCTTGATTC

60

TTGGCAGCTT AATGAGTATT CACTGAGGCA CTTG	94
(2) INFORMATION FOR SEQ ID NO:9:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 76 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:	
CCGCCTGATA TAGACACTTC GTAGAGCGTA GTTTGACTAT TCCTATACGT TTCTATTTAT	60
TGATGAGGAT CCTAAA	76
(2) INFORMATION FOR SEQ ID NO:10:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 148 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:	
TTTATTATGC ACACGTTGTT CAAATAAACC AGTGTGGGAT GTTAAGACTA TCAATTAATG	60
GTGGGATTAT GTTTGGCATT TTATTNNTTA TAAATATATA TTTTTTCTGA ATGTGTCCTG	120
AGNTCCAAAG AGGTTGGGGG NGGGGGNG	148
(2) INFORMATION FOR SEQ ID NO:11:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 144 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:	
TTTCCTTGGG TTGCTGGTTG GATTAATCTT TAATAACAAT ATATAGAATT GTAGACTGAT	60
GTTTTAGTGT TTTTCCAACA CACAAACATA AAAATAAAAA CAAGTCGGAC CGCTACTTCT	120
GTGTAAATCA AGATCNTTGG GGAA	144
(2) INFORMATION FOR SEQ ID NO:12:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS: <ul> <li>(A) LENGTH: 139 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul> </li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:	
CCTGGCCAGC GGGCAGGCC ACGAAGGCAA GATCGGTCGT TGTGCTTGTG TTTTCCAAGG	60
AGACGANCCN ATNANCTGTA AATATGTACA CGTNTCTGTC TGTGTGTCCT TCGNGGNAGG	120
ATGGTCGGNT CTATTTAAA	139
(2) INFORMATION FOR SEQ ID NO:13:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 139 base pairs	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear

CCAAAATATA TTTGGGCCAA ATGTTCCGAG GATGAGTCAG GCTGTCCTTC GCGCGGGCGA	60
GACGAAGCTT CACACGGGAC AAGATGGGAT GGGTTGGAGG AATGGATGGT CCCCCAAACA	120
ATGGGCTTAN AANAATTAT	139
(2) INFORMATION FOR SEQ ID NO:14:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 121 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:	
TTTACTGACA AGCATGGGGA AGTGTGCCCA GCTGGCTGGA AGCTGGCAGT GATACCATCA	60
AGCCTGATGT CCAGAAGAC AAAGAATATT TCTCTAAGCA GAAGTGAGCG CTAGGCCTTT	120
T	121
(2) INFORMATION FOR SEQ ID NO:15:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 132 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
• • • • • • • • • • • • • • • • • • •	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:	
CGGCTTCCTG GGCTTTATCG TATGAGCCCA TCACATGTTT ACTGTAGGAA TGGATGTAGA	60
CACACGAGCA TACTTTACAT CAGCCACTAT AATTATTGCC ATTCCTACCG GGGTGAAAGT	120
ATTTAGTTGA CT	132
(2) INFORMATION FOR SEQ ID NO:16:	

<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 130 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:	
GGAGCTTGAA GAAGAAGTTT TTTACCACCG TCTTTTTCTA CTTTATACAG AAGTAGATAT	60
TCCTGCGAAG AAGAATAATT TGGGGTAATA TGCAAGCTAG TAGATGTGGC ACAGCAAATC	120
АТАТААТААА	130
(2) INFORMATION FOR SEQ ID NO:17:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 209 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:	
ACCCCACCCA GAGCCTGGAA TCAGGATCCC AGGGTCTAGC CAGCCTGGGG TCCAGAACCC	60
AGAATCCAGC CTGTCTGAGC TGGACCTAGC AGCCCAGAGT CTAGCCAGCC TCGCTCCAAG	120
AGGGGCTCTG GTGGCCTAGG TAGA:CAGGCC TGGGTGGGGA TCAATGAGTT GGTGCTAGGG	180
CCAGGGCACC TCGACTCTGC TCCATACTG	209
(2) INFORMATION FOR SEQ ID NO:18:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 188 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li></ul>	

#### (D) TOPOLOGY: linear

(xi) S	EQUENCE DESC	CRIPTION: SI	EQ ID NO:18:	<b>!</b>		
CACCTTCCTG	AAACACCTGT	GGCTTTGACT	TTGTTATTGA	TCCAGATTAT	TCTCCTTGCA	60
TTGGGGAAAA	TATCTTTCAT	ATTTCACTGT	AAGGGATGGT	TTTGCGAGAG	TAAGTTAATG	120
TCAAGACAAA	CTGCCAATAC	AAGAGCCCAA	TGATATTAAT	TACATGAGAA	AAAGTAACTA	180
ATACATCC			···			188

#### (2) INFORMATION FOR SEQ ID NO:19:

#### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 190 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

GAGAAAGAAA	GAGATGTTTT	ATTAGCATTT	GTTACAGCAA	CGGTGACGTG	AAGGGTCGTC	60
CGTGCACAGC	CACCCGAGCG	GCAAGGCGTA	GGCCAGAGCT	GACACCCAGT	ATTTACACGA	120
GTGCAGAACA	GGATCACCCC	GAACCTCAAA	CAGAAGACTG	AAAGTCACTT	TACAAAAAGG	180
ТАААТАААА	-					190

## (2) INFORMATION FOR SEQ ID NO:20:

#### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 200 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:	
GCTACGGTCG ACATCACCAT CTTTATCCCT TCCAGCCCTT TGCTGGGTCG CGGGCCTTGG	60
GAAGATGCCA AAGAGCCGAG CAGTGGTGGT GGCCAGCGGG CAGAGTGTCC CTGCTTGGGC	120
CAGGAAAGCT TTACCTTCTC TGAGCGCCTC TGCCTGAGAG ATCGATGGTC TGTGGCTCTA	180
GGAGACCACG TCTTGGAGTG	200
(2) INFORMATION FOR SEQ ID NO:21:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 165 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:	
CCTTCTTTAT TGAATGACTT TCAAGAGGTA ATTACAGTTG AAGGTGACAA GTTAGAAAGG	60
AGAGGTGCCA CTGAAGGCAT AAGGCTGCTT GTAGACCCGG CTCTAGACAA GTGGCAGGAG	120
AAGAAAGAGG GTTAAAAAAG GCATGAGCGT GCAGCCCACG GGGCA	165
(2) INFORMATION FOR SEQ ID NO:22:	,
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 212 base pairs  (B) TYPE: nucleic acid	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:

(C) STRANDEDNESS: single (D) TOPOLOGY: linear

GGCAGCACTC CTATTAAAAC TGGAACCTAC TGAGGTTTCC TCGTGTAATT AGGGAACAGA	60
GAAACACGTT CCACGAGGGA GCCTCCAGGT CTAATTACCT GCAACCTCGC TGTACCTTGC	120
TGGCGAGGAG GGAGCCACCA ATAGCAATTA CTAACGAATG GCTGAATTTC CTTATAAGAC	180
CTAGGGAACC TGATGGGAAA CTGAATTGCT AA	212
(2) INFORMATION FOR SEQ ID NO:23:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 229 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:	
TTTTTTTTT TTTAATTTTT TTTAACGTTT ATTTATTTTT GAGACAGAGA GAGACAGAGC	60
ATGAACGGG GAGGGCAGA GAGAGGGGA GACACAGAAT CGGAAGCATG CTCCAGGCTC	120
TGAGCCCATC AGCCCAGAGC CCGACGCGGG CTCGAACTCA CGGACTGTGA GATCGTGACC	180
TGAGCCGAAG TCAGACGCCC AACCAACTGA GCCACCCAGG CGCACCATC	229
(2) INFORMATION FOR SEQ ID NO:24:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 226 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:	
CCAGGTGACA GGGAGCCTGC AGGGAGGGTC TGGGTGTTCC CAGGAGCCAG GGGAAGTGGG	60
AATGGTGCAG GCAGTATTGG AAGGAAGGCC AGTCAGTGGG ACTGGCAGCT CAGACAGGCA	120

ATATGGGGAA GCATTGGAGC TTGCAGTCTC CACTCTGGGG TTAGGGGTTT GCACACTCAG	180
CAATAAATAA CTGTGTCACA CCAAATCCTA AATATATCAC TACAAA	226
(2) INFORMATION FOR SEQ ID NO:25:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 165 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:	
GTGTTAAGTG GTCTTTATTG GGGTGTCACA TTAGGTTATC TTCTTCATTA TCAGTTCTTC	60
AGTTAATTGT ACAAGTATGA TAAGTTATTT TATATCTGAC GTGGGAATTT AAATGTAAAA	120
TAAATACAAA ATACATCTGT GGTTTAATGA ACACTCAATG AAGAC	165
(2) INFORMATION FOR SEQ ID NO:26:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 214 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
S	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:	
ACAACAACTG TTGCAGGTGC TTTTGTGTGG AGTGTGTGGA TCTGTTGGTG GGGCCGGGGG	60
GCCCAGGACT CAAGGAGGAC CCCTGGAACT GCTACATGTG CGGGCACAAG GGCACCTACG	120
GGCTGCTGCG GCGGCGGAC GACTGGCCCT CGCGGCTGCA GATGTTCTTT GCCAATAACC	180
ACGACCAGGA GTTTGACCCT CCGAAGTTTA CCCA	214

(2) INFORMATION FOR SEQ ID NO:27:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 201 base pairs(B) TYPE: nucleic acid

<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 162 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
4-1) 670177167 270777	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:	
ACACAGAACA AGAAATTTTA TTATCTCGAA TGCTGGTGCA TAAGCAATAA CAAGCTCATC	60
AATTAGAGGA GGAGACAGAG GGAAACTTCA GATACTGATG AGGATTTCTG GGCAGGTTTA	120
AAACCTTTAA AGATTGAGGC CATAATTGTT CAGTCTTTTT TT	162
(2) INFORMATION FOR SEQ ID NO:28:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 187 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:	
CCTTGCCAAG GCCGAGGCTC CACAGGAATC AGAGTTGGGA CGACNNNNGA AGGAAGCGTT	60
TGGCTTCACA TTCTAGAGAA AGAAGACCCT ACTGGGCTGC AGACCCCTCC AGGGCTGTAG	120
GAAAGCTGCT GGACCTCTTC TGCTTCTCCC CAACCACTCT GCCACTCTGC CAGTTACCAG	180
TCACCAG	187
(2) INFORMATION FOR SEQ ID NO:29:	

(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:	1		
TTCAGAATAC TGTTTTTTT TTTTTTTAA TTTGTTTTGG	TTTGTTTTTG	ТТТТААТТТА	60
AAGAAAGGTA TTTTGCTTGC AGGAAAAATA CTCCAGATTC	ATTTTAATGA	GAATCTTTGA	120
AATGTATTTA TCTTTAGGGC ATTTGGGGCA ACTTTAATGC	CTGTTGGCCT	CCGGCCTTCC	180
TGGAAATAAA AGGTCCAACG G			201
(2) INFORMATION FOR SEQ ID NO:30:			
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 221 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:			
CCTGCCCCAC GCCATCCTGC GTCTGGACCT GGCTGGCCGG	GACCTGACGG	ACTACCTCAT	60
GAAGATCCTC ACAGAGCGCG GCTACAGCTT CACCACCACC	GCCGAGCGGA	AATTGTGCGT	120
GACATCAAGG AGAAGCTCTG CTACGTGGCC TTGGACTTCG	AGCAGGAGAT	GGCCACCGCC	180
GCGTCCTCGT CCTCCTGGAG AAGAGCTACG AGCTGCCCGA	С		221
(2) INFORMATION FOR SEQ ID NO:31:			
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 182 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>			

(xi) SEQUENCE DESCR	IPTION: SE	Q ID NO:31:			
ATTGTGATAG AAGACCACGG TO	GGGTTCAAN	CANGTTGAAG	NAGTTCCGCN	TTTCCCCTCC	60
GGGGGAAAGG TTGTCGATGT CT	INTTGGTNN	TAAGTANTCA	CCCATNCATT	GTTGACAAGG	120
NTCANTCCCG AAGGGTCATT CT	ITGAGTAGT	AGACCAATAT	TNTAAAAATA	ATTTNAATCC	180
тт					182
(2) INFORMATION FOR SEQ	ID NO:32:				
(A) LENGTH: 21 (B) TYPE: nucl (C) STRANDEDNE (D) TOPOLOGY:  (xi) SEQUENCE DESCRI	leic acid ESS: singl linear	e			
AATTGAGAAA GACATAATGG T		_		GGGTTCGATT	60
CCTTCCTTTC TTATTTTAAT AC	GTACGTAAG	TTGGCTCTTC	AAATGTGTGG	TACGGAGGAG	120
GACATCCATG CAATCATTCA AG	GATTAGTTG	TGGTTAATTC	TACTATGGCC	ACTTCTCGCT	180
TGGATGCGAA AGCTTCTCAC AG	CTATGAAAA				210
(2) INFORMATION FOR SEQ	ID NO:33:				
(i) SEQUENCE CHARAC (A) LENGTH: 18 (B) TYPE: nucl (C) STRANDEDNI (D) TOPOLOGY:	86 base pa leic acid ESS: singl	irs			

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:	
ACGCTCGTTT TCCAAAGAGA AGAGCGTTGT TTAGAGTAGC GAAATTCGAA GGCTGCTTAG	60
GCGCATTGTA AAGCTGTTGG GGAAATAACT CCACAAGTTT CGTGAGTGGA AATGTAGTGC	120
TCGAAACACA TTCTGCTTTA AAAGGTTGTA ACAAATACAA ACAAATTTAA AAAAAGCTCT	180
CGAAAA	186
(2) INFORMATION FOR SEQ ID NO:34:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 173 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:	
CTGGAGCGCA AGTACTCCGT GTGGATCGGT GGCTCCATCC CGGGCTTGGT GTCCCACCTT	60
CCACAAGTGT TGATCACACA AGCCGGAGTA CGCGCGCGGT TCGGCCCCCT TCATAGGCCA	120
CCGCAAAAAC TTTTAGGCGG GCTCTTACNT TAGAGGCGGT ACACACCTTC TTG	173
(2) INFORMATION FOR SEQ ID NO:35:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 197 base pairs  (B) FYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:35:	

TGGGCATCAA ATGAAAGAGA TACTTGCAAA GGCTCTTGAG GGGCAGGGAA AGGAAAGGAG

GACTGTCTGC TTTGGACCCT AAACTGGACA GGGACTAGGT ATTTTTGATG TTCATAAGTT	120
GTCCTGCTCT AAGTTCATTT GAGTAGCAGA CCTGACAAGC ATTTGAGGTC AAAACCCTAC	180
CATGTGTAAA AAAAAAA	197
(2) INFORMATION FOR SEQ ID NO:36:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 146 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:36:	
GTCTTGATAC AAAGCTTCTG TGCTAATCCA GACTATTTAG GCAGGGGCAA TAGGGTGTAA	60
AATGTATCTG CTCTCTAA ACGCGGCTAA NGNTCTAGTC CATGTCCCNC CNNGCAACCN	120
NCAANATCCC ACNAGGGGGN AGNTCG	146
(2) INFORMATION FOR SEQ ID NO:37:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 156 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:37:	
CCCAGGTGAA CAGGAACAGG TTTTCTCATA AAAAACAACA AAAAATCCTT GCCATTCATT	60
TTCTTACTTG NATGTGGAAA AATAGATCCG CCTTTATTGN TGAATAGCCT TAAAACTTTT	120
GGAGAATATT CCTTAGNAAA TTAGGGGGGG NGGGGC	156
(2) INFORMATION FOR SEQ ID NO:38:	

(i) SEQUENCE CHARACTERISTICS:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 173 base pairs

(A) LENGTH: 216 base pairs

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:38:	
CATCTAGATA NTCTTGGNGA TTGGGGCCTC TAGNTGATTG CTCGAGCGGC CGCCAGTGTG	60
TTTTAAAGAC TGGCTCAGGG CCTGTGCGAG GTGCTGCTGG TGGTGACCAA GGAGGTGGAG	120
GAAAAGGGCT GCTGGNCTGC GGNACAGTAC TGACCCCGCG GAGGTAGTAG CAACCAGGTC	180
CACCGTACCC CTGCGAGTCC CCCGCTGCCA ATCCCC	216
(2) INFORMATION FOR SEQ ID NO:39:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 224 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:39:	
CCACCAAGAA GCTGGACCTG TGGATGCTGC CTGAGACACT CATTATCCAC CTGAAGCGCT	60
TCTCTTACAC CAAGTTCTCC CGC@AGAAGC TGGATACCCT TGTGGAGTTT CCCATCCGGG	120
ACCTGGAACT TCTCCGAGTT TGGCATCAAG TCCGTAGGAA CGAGTCGGCT CCGGAGCTGT	180
ACAAATACGC ATCTCATCGN GGGNTNCCAT CNCATTNATG GGGG	224
(2) INFORMATION FOR SEQ ID NO:40:	

(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:40:	
GGCGAATTGG GCCCTCTAGA TGCATGCTCG AGCGGGCGCC AGTGTGCTCT AAAGCCAAAA	60
TATATTTGAG CCAAATGTTC CGAGGATGAG TCAGGCTGTC TTCGGGGGCA GNAAAGGCTT	120
CACACGGGAC AAGTGGATGG NTTGGAGGAA TGNATGNTCC GCAACCATGG GCT	173
(2) INFORMATION FOR SEQ ID NO:41:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 213 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:41:	
CTGACTGGCC CAGAATTTTT GAATACTGGA GGCAGTCTCA TTGGCCTCCC TCATTAGACT	60
CCAGGATTCG GTCCAGCCCG AGACCACTGT GGGCTCCTAC CAGTCCAAAA GTCTAGGACC	120
GCTTGCAGAC CCAGGAAAGG AATTTTCTAG TGTTCTACAA AGGCCAATAG AGAGGGTGGG	180
AGTGGGTGGG GTGAGGACCG GTGGCGAGAG GGG	213
(2) INFORMATION FOR SEQ ID NO:42:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 195 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:42:	
GCCAGATTTA CATAAGAACA TGCTTAACAG ACGATCTTTT AGCTGACGTC TTACCAGNAA	60
TCGCCCAAGT CCGCACGGTA AGTAAAGAGG AGGCCCGCCA GGTCAGAGTT TGCTTAGCAA	120
TAGGGTCAGG TCACTAAAAC TGTAAATCCA TTGCGAGAGG GGGACGCCTC CGCTCAAGCT	180
TGGCTGGGCT TCGGC	195
(2) INFORMATION FOR SEQ ID NO:43:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 303 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:43:	
GTCAAAGAGA CCAAATCCCA TATCCTCATC TGATTCCTCC GACTCTTCCT TTGCTTCAAC	60

CTTGGCTGGG GCTGCAGCAG CAGCAGGTGC AGCAGTGGTG GCAGCGGCCA CGGGGGCAGC

AGCCACAAAT GCAGATGGGA TCAGCCAAGA AGGCCTTGGA CCTTTTCAGG CAAGTGGGGA

AGGTATAATC AGGTCTCCAC AGGACAAAGG CCAGGACCCG CTTATTTTCC ATTGGATGGA

TAGGAATGGG GGGCACTGNA TGCAAACAGG NCGGGGTTNA CCCTTTCTTG NAGGACCATT

120

180

240

300

303

## (2) INFORMATION FOR SEQ ID NO:44:

TCA

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 217 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:44:	
GCGCAGGCAC AGCTGGTGAG GGGCGAGGCC GCAGACGCCA AGGTGGCCAC CATGGTCCGG	60
AGTGCCTGCA GGTAGTGGGC TTCGTCACGA GCTTCGTGGG TTGGATCGGC ATCATCGTCA	120
CCACGTCCAC CAACGACTGG GTGGTGACCT GCGGCTACAC CATCCCCACC TGCCGCAAGC	180
TGGACGAACT GGGCTCCAAG GGGCTGTGGG CAGACTC	217
(2) INFORMATION FOR SEQ ID NO:45:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 224 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:45:	,
CAAACCCATG CATACCACAT AGTCAACCCT AGCCCATGGC CACTTACAGG AGCCCTTTCA	60
GCCCTCTTAA TAACCTCAGG CCTGGCTATA TGATTCCACT ACAACTCAAC ACTGCTGTTA	120
ACCCTTGGAA TAACTACCAA CCTACTAACT ATATATCAAT GATGACGAGA CATTATCCGA	180
GAAAGCACAT TCCAAGGCCA TCATACACCT ATCGTTCAAA AAGG	224
(2) INFORMATION FOR SEQ ID NO:46:	
(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 243 base pairs

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:46:	
GCGCCCGCCG CGTCGCCCG CCTCACCGCC GTACCACCCG CCGCCTCCTC TGCAACCTCA	60
GCCCACCGGG GCACCCGGCC CAGGTCACTG GCGGCCCAGG CGCAGCTCCT GGAGGAGAAT	120
GACCAGCTCA TCCGCTGTAT CGTGGAGTAT CAGAACAAAG GCCGGGCGAA TGAGTGCGTC	180
CAGTACCAGC ATGTGTTACA CAGAAATCTC ATTTATTTGG CTACCATCGC AGATGCCAAC	240
ccc	243
(2) INFORMATION FOR SEQ ID NO:47:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS: <ul> <li>(A) LENGTH: 215 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul> </li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:47:	
AGACCAGCCG GTGACAACCA CTAATCAAGT TCCATAACTA TATAGCGCCG CAATTCCCAT	60
GGCCTCCTCA CTAAAGAACC CTGAGTCACC TGTATCATAA ATCACCCAAT CACCTGCACC	120
GTTAAACTTA AATACGACTT CTACCTCATC TTCCTTTAAA ATATAACAAG CAGTTAATAA	180
TTCTGCTAAC ACCCCCGTAA TAAACATTGC TAGTA	215
(2) INFORMATION FOR SEQ ID NO:48:	•
(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 288 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear

(xi) SI	EQUENCE DESC	CRIPTION: SE	EQ ID NO:48:	:		
TGAGGTTGAT	TATTGTGGTG	GTATTGTTCA	CTGTGTAGAA	ATAGTAGGAG	TAGATTTAAA	60
TAGATTGTTC	AGTTTTTAAT	ATTAGCCATA	GAACTGGTTA	GTATCTCAGT	AGTTTCATGA	120
AAGCTTTTCC	TGTATTCTAA	TCTATTTTGA	GAAATTTTCG	TCCCTTTTTT	TTAATTGTGT	180
CTTACAGTTC	AAGTTTGTAG	ATTTTAATAA	GCAACAATTT	TTAAAGATGC	GGTAATCTTC	240
СААСТААТАТ	TTATCCATCT	TTCATGGCCC	CACAACTGCA	TCTTTAAT		288

#### (2) INFORMATION FOR SEQ ID NO:49:

#### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 289 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:49:

CTAACTGCAT	TCTCTCCTCG	TTCATCCTTT	GGGGCTGATT	GATGAGCCCC	TTATTTCTTA	60
ТСТСТААААА	TCAACAGCAA	GGTCTACTTC	ACATGGCCAC	TCCAGTCCTT	TGAGCTATAA	120
TCAGGATTAT	ATAACTTACC	СТСАААТСАА	AAGTTAAGAA	AAAGGAAGCC	CATAAGCTAA	180
GGCACTGAAT	CTTTTCCTGA	CAATTTCTAG	AGGTAGAATT	TCATCATGCT	GCAGAGAGAG	240
AGAGAGAGAG	AGAGAGAGAG	AAGGAGGGGA	GGGAAGAGAA	ATGAAAGAG		289

## (2) INFORMATION FOR SEQ ID NO:50:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 287 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

( )	(i) SE	EQUENCE DESC	CRIPTION: SI	EQ ID NO:50	•		
ATAATO	GTTA	TGGCATTGGC	TTGAAACCAG	TTAAAGAGGG	TTCGATTCCT	TCCTTTCTTA	60
TTTTA	ATAGT	ACGTAAGTTG	GCTCTTCAAA	TGTGTGGTAC	GGAGGAGGAC	ATCCATGCAA	120
TCATTO	CAAGA	TTAGTTGTGG	TTAATTCTAC	TATGGCCACT	TCTCGCTTGG	ATGCGAAAGC	180
TTCTCA	CACT	ATGAAAACTA	TTAACATGAC	TGCTGTTAAT	GAGATGAAAG	AGCCCATTGA	240
GGAAAT	CGTA	TTTCAAGTTG	TATATGCATC	TGGATAGTCA	GAATAAC		287

### (2) INFORMATION FOR SEQ ID NO:51:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 276 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:51:

TGGTGACACA	CGTCTTTCAG	TCACCAGTGG	AGATCACCAG	GAGCATCAGC	AGGAAGAGCC	60
AGTGGGCCCA	CAAGCTTAGC	AAGTTGATCA	GGATAGGGTT	ATTTGGTGGA	TAGACCATGA	120
GTGTCAGGGA	CCTCCCACTG	GACACCACCC	CAGAGGCTCA	GGATGCTTTT	CGAGGGAGGA	180
AAGGAGAAAG	ACCTCTACTG	AGGGAACAGC	TGGCCGTGTG	TGGTGGGCTG	AGGTGACGTA	240
CAGGGGCAGA	GCTTTCGAGG	GATTTTCAGA	TGATCC			276

#### (2) INFORMATION FOR SEQ 10 NO:52:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 293 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(xi) S	EQUENCE DESC	CRIPTION: SI	EQ ID NO:52	1		
TAAATAGAAA	CGTATAGAAT	AGTCAAACTA	CGTCTACGAA	GTGTCAATAT	CAGGCGGCGG	60
СТТСАААТСС	GAAGTGGTGA	TTTGATGTAA	AGTGATATTT	TAGTTGGCGT	AAGAAGCATA	120
CAATTAGGAA	AGTAGAGCCA	ATAATTACAT	GTAGCCCATG	GAATCCTGTG	GCCATGAAGA	180
AGGTAGATCC	GTATACTCCG	TCCGAGATCG	TGAATGATGT	TTCATAGTAT	TCTGGAGGCT	240
TGAAGGAGTG	TAAAGTAGAC	TCCTAAAGAG	ATTGTAATAA	ATAGTGCTTG	AAG	293
(2) INFORM	ATION FOR SI	EQ ID NO:53	<b>.</b>			

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 239 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:53:

GTTTTTGTTT	TTAAAAATGA	GTTCTTTTAA	AACCATGTCA	TACATTCCCC	ATACTGATAT	60
CGCATGACCC	NTTANAATAA	AGGCAGGGGG	NTTTACTAAT	GGGGGGCGG	GCCANACCCN	120
CCATCGTTTC	AGCCAGACAG	TTCAACCCGG	GGNNCCTTGT	TCCTGCGGAC	CTCCGGGGNA	180
NGCCTTTCCT	TTTCCAAAAA	GGGGGCCGNT	CGGAGNATGN	ATNTNGAGGG	CCCAATTAG	239

## (2) INFORMATION FOR SEQ ID NO:54:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 255 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:54:						
GCGCTCTGAC CAGGCATCAG TTTTCCTGGT GCTCTCTGGG CTAGCCTGGT GATGTAGGGC	60					
CAGGCAGACA GGCAGGCAGG GGCTGAACAG GGTTTCTCTG CTCCAGGAAG ACCAAACACA	120					
GAGGACCTTA CAGGCAGGAA CCCCACAGAC TGTCCCAACC CACACACTCC ACCACCTGTG	180					
CCCTGTCCCA TGTCTGAGCC AAGGCCCTGA GGTAGAAAGT CACCTGATCC TGTATCTCCA	240					
TAGGGGCCTG ACTTT	255					
<pre>(2) INFORMATION FOR SEQ ID NO:55:  (i) SEQUENCE CHARACTERISTICS:         (A) LENGTH: 230 base pairs         (B) TYPE: nucleic acid         (C) STRANDEDNESS: single         (D) TOPOLOGY: linear</pre> (xi) SEQUENCE DESCRIPTION: SEQ ID NO:55:						
CCCNAGNGCA CACNGGNGGC CNTAANNAGN GGNTCCNAGC NCGGNACCNA GNTTGAGGCA	60					
TAGCTTNAGN ATTCNATAGT GNANCACAAA TAGCNTGGGG NAATCANGGN CAAAGCCNTT	120					
TCCCGTGNGA AATTGTNATC CNNTCANAAT TCCNCACAAN ATACGGGCCN GAAGCATAAA	180					

230

### (i) SEQUENCE CHARACTERISTICS:

(2) INFORMATION FOR SEQ ID NO:56:

(A) LENGTH: 257 base pairs

GNGTAAAGCC CGGGGGGCCC AANGNGGGNG CNAACTCACA TTTAATNGCG

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:56	:					
GGGAAATGTA GTTTGGATGC AAAGCTGATT AAATTGGATC	AAGAAAAATT	GGAATTAAAT	60			
ACATACAATA ATGCATGCAT TTATGGTTTC GATTTTTATA	TATCCTTAGC	TAGTTGGAAA	120			
TGATGATTCC CACAACAAGC ATAACTCAGC TTGTTTCTGC	TTACTGAGTA	СТТТСТССТА	180			
TGGTATATGT TGATAACATT TCTTCCATTA TGTATGTTGC	ATACGAGAGT	TACAGTTACT	240			
GTGGGAATCA TAATTTT			257			
(2) INFORMATION FOR SEQ ID NO:57:						
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 280 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>						

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:57:

GTCACCATTA AATGTCTGAA TTTTAAACAG ATTCTTGGAC TGGTGGCTCA TATCCATCAG 60
CTCGCTCAAC TTTAGCACCG GTCTCATCCC CAGTAGCTTT TCCAGAACTG CTACCTTCAC 120
CATGAAGCTC CATGAGCTTT CCCAATTCAA ACTTGGGCTT CTTCAGCATT TTTACTTTTC 180
TAACGAAGTC ATCATGAAGT GGATAAATAG ACTGACAAGC CTTCTCTATG TCTTTCCGA 240
TCTGTCTGGA ATCAATTAT TGACAACTTC TTTCAAGTCA 280

## (2) INFORMATION FOR SEQ ID NO:58:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 281 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(xi) SEQUE	ENCE DESCRIPT	ION: SEQ ID	NO:58:		
TCATAGCATT TC	TTCTGCTT CTCC	rggatt atgtg	CTACA AATGTGC	TTT GGCTTTAGAA	60
AGGGATGGAT GAG	GAAGACAG AGCT	GAGATC AACCT	GGGTA GAAGCAG	AAA GTTAAACCCT	120
TTAAAAGTGC TGA	AACACAGA TTCG	AATCCA AATGG	TTCAA GCAGCCA	IGA AATCGCTCTT	180
CATGAAGTGG GC1	TTAATTCT CTAG	TTTAAG TTCTT	TTGAT GGAATGA	ATT AATTAATGTG	240
TCAGGTGGCT TAI	TTTGTGGA TGCA	GATTG ATGAT	GTCAT T		281
(2) INFORMATIO	ON FOR SEQ ID	NO:59:			

#### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 283 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:

CGGACCCGGA	CAGAAAGCAA	ATCCTGGAGC	GCACCCAGCG	TGCGGTGGGG	CTGGCCGCAG	60
AGCCCCTGGA	GAGAGCCGTG	CGGGNCGGCC	TCCCGGCAGA	GGAGGCCGCC	CGCTGCGCAG	120
AGGTGTTGTT	GGAAGAAGCG	AAAGATTTGC	TCTCCGACTG	GTTGGACTCC	ACCCTGGGCA	180
GCGAAGTTAC	GGACAATTCT	ATTTTCTCCA	AACTGCCCAA	GTTCTGGGAA	GAAGAATTCC	240
ACAGAGACAT	GGAAACCCTG	AACGTTCTCC	CTCCGGACGT	CCT		283

#### (2) INFORMATION FOR SEQ ID NO:60:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 320 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(xi) SEQUENCE	DESCRIPTION:	SEQ	ID	NO:60:
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CGAATCTGTT	GTAGCAGTTT	CAAATGATTG	TGTGGATATT	GGATGTTTAA	CCTTTACCAT	60
TTGCTTTGTA	TCGACACATT	TTTCATTTTA	AGTGTTAACT	CATGTACTGT	TTACTTTAGG	120
AATAATGCAA	ATCCAACCTT	CATCCAGTGA	TGAGAATAGC	AGTATGATAG	GAATTTGCTC	180
AATGTGCTTT	AAATGAGTAA	TTGCTTTATC	TTTTTTAGTA	TCTGATAGAC	TTTGCATGAC	240
ACGGTACACT	CCTAATTATG	CATTCTTTAG	TTTCCAAATC	TTAACCTAAG	ACATTCTATA	300
TTAACTGATG	GGTAGCTGAG					320

## (2) INFORMATION FOR SEQ ID NO:61:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 303 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:61:

GGTTTTGCAG	GGGCAAGTGG	GGCTGGGCCC	CGCTGGGTGA	GAACCCCGCC	GCACACTGCA	60
GTGGGTGCCT	GGACCCCGCA	GCAGCGCTGA	GCAGACGGTG	GACTCTGGGC	TGTGGCCTTT	120
CTTGGGCCCA	CTGGGGCCGG	CTCTTGTATA	TAGCTGGGGC	TCATGGGCAT	GACCCCTTTT	180
TTAAAACCTT	GGGTCTTAGG	ACACCTGGGT	TTACCCTCAA	CTAAGGGAGG	GTGGGAAAGG	240
GATTTACTTG	GGGTCTCAAT	AATTTACGAT	ATCCCTTTAA	GGTTGACCAT	TAAAACTGTC	300
CCA						303

#### (2) INFORMATION FOR SEQ ID NO:62:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 276 base pairs
  - (B) TYPE: nucleic acid

(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:62:							
CCTCTTAATA ACCTCAGGCC TGGCTATATG ATTCCACTAC AACTCAACAC TGCTGTTAAC	60						
CCTTGGAATA ACTACCAACC TACTAACTAT ATATCAATGA TGACGAGACA TTATCCGAGA	120						
AAGCACATTC CAAGGCCATC ATACACCTAT CGTTCAAAAA GGCCTTCGAT ACGGAATAAT	180						
CCTCTTTATC ATCTCAGAGG TATTCTTTTT CGCAGGCTTT CTTCTGGGCC TTTGTTACCA	240						
CTCAAGCCTA GCCCCAACCC CCCGTAGCTT AGGGGG	276						
(2) INFORMATION FOR SEQ ID NO:63:							
<ul> <li>(i) SEQUENCE CHARACTERISTICS: <ul> <li>(A) LENGTH: 301 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul> </li> <li>(xi) SEQUENCE DESCRIPTION: SEQ ID NO:63:</li> </ul>							
CCAGTACTTT GCTTTTGTAG AAATAAATGT GCATTTCTTT CATTAGTTTT GGGATGTCCT	60						
CGTTGACACT TGTATAATAA ATACCCTCTT GATATCATTT TCAGCTTTTA TCACTAGATA	120						
CTGGACGTGA TTAGAATGTC GTTGAAGGTT TCTGCACTTT TACTTGCCTT AGATGATTAT	180						
TTTGAGTTGT CAAAGTCAGA TCTTTGCAGT TTTCAGGGGG AACATAGTTC TCAAAGTCAT	240						
TTACTCATCT TTTTCTAATC TCCCATGTTT ATTTTTAATC CTAAGGATTT CCCCCCTGTT	300						
T	301						
(2) INFORMATION FOR SEQ ID NO:64:							

#### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 300 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:64:

CTTTAGAGAC ATCTACATTA CTTATAAAGC TAATCAGGAA GTTAGCACAA CACACTCTTT 60

TTTAAATGGT TAAGATGGGC ACTTTTATTT CTTATATTT CCTATCCAGA GAAAACATAG 120

AAAAATTTAG ACATTGGAGA AATAATAAGA ATGAAAAGTG GTGCCTGGGT GGCTCAGTTG 180

GTTAAGTAŢC TGACTTCAGC TCAGGTCATT ATCTCATAGT TTTGTTAAGT TCGAGGCCCC 240

ATTATNCAGG GCTNCCGNTG GCCTAACAGC TTNCNGAGGT CNTNGGGGNC CTGCTTTCCA 300

#### (2) INFORMATION FOR SEQ ID NO:65:

#### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 322 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:65:

CGGGGGGGGG GCAGAGAGA AGGGAGACAC AGAATCGGAA ACAGGCTCCA GGCTCCGAGC 60
CATCAGCCCA GAGCCCGACG CAGGGCTCGA ACTCACAGAC CGCAAGATCG TGACCTGGCT 120
CAAGTCGGAC GCTTAACCAA CTGCGNCACC CAGGCGCCCC GAAAGCTCTC AGTTTTTACC 180
CATTGCGGTT GATATGAGCT TTGGGTTTTT CATATATGGC TTTTACGGAT GCTTAGGTAT 240
GTTCCTTGCT TATCCCGAAT TTCTTTGAGG GGTTTTTAAT TTAAGGAAAG GGGTGATTGG 300

TAATTTTTTG TCAAAATTGC CT	322
(2) INFORMATION FOR SEQ ID NO:66:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 283 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:66:	
CCTAGCCCAT GGCCACTTAC AGGAGCCCTT TCAGCCCTCT TAATAACCTC AGGCCTGGCT	60
ATATGATTCC ACTACAACTC AACACTGCTG TTAACCCTTG GAATAACTAC CAACCTACTA	120
ACTATATATC AATGATGACG GGACATTATC CGGGAAAGCA CATTCCAAGG CCATCATACA	180
CCTATCGTTC AAAAAGGCCT TCGGATACGG GGATTAATCC TCTTTTTCAT TCTCAGGAAG	240
AATTCTTTTT TGGCAGGGT TTTTTTTCTG GGGGCCTTTT TTT	283
(2) INFORMATION FOR SEQ ID NO:67:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 312 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:67:	
ACGAAGTGTC AATATCAGGC GGCGGCTTCA AATCCGAAGT GGTGATTTGA TGTAAAGTGA	60
TATTTTAGTT GGCGTAAGAA GCATACAATT AGGAAAGTAG AGCCACTAAT TACATGTAGC	120
CCATGGAATC CTGTGGCCAT GAAGAAGGTA GATCCCTATA CTCCGTCCGC GATCGTGAAT	180
GATGTTTCAT AGTATTCGGA GGCTTTAAGG AGTGTAAAGT AGACTCCTAA TGAGATTGTA	240

ATAAATAAGT GCTTGTAGCA TGTGTTTTCG GATTTCCCTC CATCAAACTT GTGGTGAGCT	300					
CCAGGGCGAT TG	312					
(2) INFORMATION FOR SEQ ID NO:68:						
<ul> <li>(i) SEQUENCE CHARACTERISTICS: <ul> <li>(A) LENGTH: 309 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul> </li> </ul>						
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:68:						
TTTTTTTTA CTGGGGTGGG GATGGGAAGC CCTCATGCCT TTATGGGGCA GCATTTTAAA	60					
CCTTTGCCAA AATCGCCAGT GGGACCTACA CGTGCTTCCG CGCCATCCTG TTGAAGACAA	120					
ACACCTCTCA GCTGTTTTAA TCTTTAATCT TTTCTGTGTG TGTTTGTGTG TGTGTGTGTG	180					
TGTGTGTGTG TGTGTGTGAC CTGAGTTTTT GATGAGATAC TTGATTTGCA TCAAAATCCC	240					
GTCACTTTCC AGCTTTTGTT TGGTCATCAA AAATCATTAA AAGGAGCTTG TAAAATTTTA	300					
ACCAGGGTT	309					
(2) INFORMATION FOR SEQ ID NO:69:						
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 271 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>						

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:69:

TGGCTGTCAT CTGGAGGCTT CTGCCTCAGC TCCTGAAGGC TGCTCTCATT CCTTCTCGCG

60

TGCTCCCGTC	CATCTTCAAA	TTCTCAATGG	CCCATCTTCT	CACGCCTCCC	ATCCCTCTGC	120	
СТТСТТССТС	TGTTTTAAGG	TTCATGTGAT	TAGATCAAGC	CCACTGATCA	AGTCTCCCTA	180	
TTTTAAGGTC	AGTTCTGCCA	TAGAACATAA	CATAATCACA	GGAGTGACTG	CACAGGCACG	240	
GGTTCCTGGG	ATTTGGGCAT	GGAGTTGGGG	G			271	
(2) INFORMATION FOR SEQ ID NO:70:							
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 311 base pairs							

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:70:

(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear

ACGCTAAGGA CACCTTTTT GTTTCTGCAC CTGATGTTAT AGATGGCAAC ACCAAGTTCT 60

AGAGCAATTG AGAGACTTGT CCAAGGTCAC AGGATGGCTT CACTTCAGCC AACTATATAG 120

TTGCAGTGAC AGTATGTGTG CTCTCTGAGG GGTTACTGAA AACCCCTGTC AAATATTTCC 180

TGTGGACACT CAGCCTTTAA ACTCCCAAGC CTCATGAAGA ACTTATTGGG GGGGGGGGC 240

GCCTAAATAA TTCAGTCGGT TGAGCGTCTG ACTTCGGCTC AGGTCATGAT CTCACAGCTC 300

GTGAGTTCGA G 311

#### (2) INFORMATION FOR SEQ ID NO:71:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 298 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:71:

TGCCTAGAAT	CATTGTTCTG	TGTGGAGGTG	TTTTGTTTTG	ATAGAAACCG	GCCAGTCTTG	60	
AACCAGAACG	AATGTTTCCC	TTGTCTAATG	TTCTCACAGA	GAAATGGACA	AGCGTTTTAC	120	
AGGTATAAAA	GGCACAAGGA	GGAACTTATT	TTTGGTCAGA	GCATTGGGGA	AGTAAATCAC	180	
AAGGCAAAAT	AGATCTGTTT	GTTGTTTGTT	GCGGGAGGAA	GTATTAATAA	GCAAATCAAA	240	
TGCCTTGTAT	GATCTCCAGT	GTTATAATTA	TAGATCCTAA	CTTTGCAAAT	ACATGTAG	298	
(2) INFORMATION FOR SEQ ID NO:72:							

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 255 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:72:

ACTGGACCAA	AATTGGTGTT	TGTTTTAACC	TTGACTCTTC	TTTTGATTAT	TTCTAATGCT	60
ACAAGAATGC	TGTAAAGTGT	CTTCTACAAT	GATGTAGCCC	TGACAAGACA	TGTTTGGCAG	120
TGTATAAAAA	TTAGGTAGGA	TTGTGCACTG	ATTCGACCAT	TGTGAAATCT	TTTCTCAGTG	180
GTAAGTGCAT	TCTCTAATAA	AATTTATGNA	GGTGAAACAA	TCTTTGGNGC	AATGGACCAC	240
TCATGCATCC	ATCCC					255

## (2) INFORMATION FOR SEQ ID NO:73:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 271 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) S	SEQUENCE DES	CRIPTION: SI	EQ ID NO:73	:		
AACAGCCCCA	CTATCAGCAC	CCAAAGCTGA	AATTCTTTCT	TAAACTATTC	CTTGCCAATA	60
CCAGNAAAGC	AACCCCATAA	CTTTCATAAT	TCATATATTG	CATATACCCA	TACTGTGGCT	120
TGGCCAGTAT	GTCCTTATTT	CCCACAAAAA	AACCAAGTAA	NAAACCCCAA	GTACCACAAC	180
CCAAAACACA	CAATGTAAAA	TCACTCTATT	AACCACANAC	CCACCCCAGG	TTGGGTATTA	240
TACACCCATO	GTNCATAAGG	ACATACTATG	T			271

# (2) INFORMATION FOR SEQ ID NO:74:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 336 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:74:

CGCTGCATCT	TTTTCTATGC	TCTCCCTGCT	GGCGCTGATG	GGAGATACAG	ACAGCAAAAC	60
GGACAGCTCG	TNTCATGATC	GACTCGGACC	CTCTGCGNCT	GCATGAGGCA	CCACTATGTT	120
GNATTCTATC	AGCTCACCCG	TTGNTACAAG	TGTAGNCTCA	AAGGAAGAAT	AGTGGGAGTC	180
TTCTGTGAGA	CCTATCTGAA	TCCCCGNNTG	GCCCTGAGNT	TCCAGAGGGN	CCTGGTCGTC	240
CCATCGCCTA	GCAGGGTTCA	AGNAAAGGGG	CCCGCNCATG	GCAGTCCTTG	GNCAGNAGNA	300
ANGGANTTGG	NCCCAACCCC	NTTGGTTCCC	AACCCA			336

#### (2) INFORMATION FOR SEQ ID NO:75:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 337 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:75:	
CGGCCACTGG TCATCAGATG AGCATTTTGT GTGTTTGAAG CTAGTAGCTA TAGAAAAGAT	60
AGTTGTGCCC TGATAAAGTA GCTTTTTAAA AAAAGTTTGG GTTAGTTTCA CATTCAAGGG	120
GCTTATGAAG AGATGCAAGT CAGGATACAT AGGCTTGATT CTTGGCAGCT TAATGAGTCT	180
TCACGAGGCA CTGAAGGTGG AAGGGTGGAG TCCAGTAACT GCTCTGGAGC AGTGACTTCC	240
CAATTCTGAC GATCTCAACA TTGTTTCTGA AGGACGTTGC CATCTTGGAC ACAGGAACGT	300
GCTGTGGGGT GCCTGGCAGT GTCTGAGTAG TAGACTT	337
(2) INFORMATION FOR SEQ ID NO:76:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 252 base pairs</li><li>(B) TYPE: nucleic acid</li></ul>	

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:76:

(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

CGCTGCATCT	TTTTCTATGC	TCTCCCTGCT	GGCGCTGATG	GGAGATACAG	ACAGCAAAAC	60
GGACAGCTCG	TTTCATGATC	GACTCGGGAC	CCTCTGTCGT	CTGCATGNAG	GGCACCACCT	120
ACTGTTGGAT	TCTTATCAGN	NCAACCCGCC	CNGNTGCAAA	GATGNTAGAC	TCCANAAGAG	180
NAAGNAATNA	GTTGGGGNAG	GTCNTTTCCT	GCTGNAGAAC	CTAATTCNTT	GCAATTCCCC	240
CCCGCCCCC	GG					252

# (2) INFORMATION FOR SEQ ID NO:77:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 266 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single

## (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:77:

ATTACAACAT	CTAGAAGGCT	TTCATCATAC	GATACAAAGC	TCAGTTACAA	ATGTGCATCC	60
TAGTATTTGG	ААААСТААТА	CCTCTCTTAA	TGTAACATGA	AAAAATTATT	TCTTATGTCC	120
TTTTTCAGGA	CTCCTCTTTT	ATTTTTTGGT	ATTTTATCTT	TTATGGCCAC	CTTGGCCTTC	180
TGGCCAATGT	GTTATGCAGT	GAAAATGCTT	GTGGGCAGAG	GATGCCCTAC	AGCGCAAAAA	240
TACCGCGCAC	ATGGGTTTCC	CAGGTA				266

# (2) INFORMATION FOR SEQ ID NO:78:

# (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:78:

TTTTGTTTTA	TCCGTTTATT	AGTACATGGG	CGTCGGGAGG	ATGATTTACT	CATCATCTTG	60
TATTACCAGA	GGTAGAGCAT	AATGCCATCT	GCTAGGGATC	CAGTTCGACA	GCACCTCAAA	120
ACACTAGTCT	GCTCACTCAC	CCTATAGGGC	TTGNTCATTC	CACTTGGGAT	GGAAGACAAC	180
AGTGCCTTTA	ATGCAAATGG	GCCCCAGGCA	AGGAATTAAC	CATTGGCTTC	ATGGCTCATG	240
AAGGAATACA	GNCNNATTTA	ANGCGNGGCA	GGCAGGAAGC	CTTTGNGCTA		290

## (2) INFORMATION FOR SEQ ID NO:79:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 280 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: single (D) TOPOLOGY: linear

AGAAAGAAAG AAACT

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:79:	
CTAAAGTGGC TGAACAGTAT ACCCACCCCT AGCCGGCAAC CTGGCTCATG CAGGAGCATC	60
CGTAGACCTA ACTATTTTT CACTACACCT GGCAGGTGTC CTCCTCAATC TTGGGTGCTA	120
TTAATTTCAT TACTACTATT ATTAATATAA AACCTCCTGC CATGTCCCAA TATCAAACAC	180
CTCTATTTGT CTGATCAGTC TTAATCACTG CTGTCTTACT ACTTCTATCA CTTCCAGTCT	240
TAGCAGCGGG AATCACTATA TTATTAACAG ATCGAAACCT	280
(2) INFORMATION FOR SEQ ID NO:80:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS: <ul> <li>(A) LENGTH: 375 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul> </li> <li>(xi) SEQUENCE DESCRIPTION: SEQ ID NO:80:</li> </ul>	
GCCGGGAGCC GGCCTTTGGG CCGNGGGCGG AGAGGCCCCC GGACGGTCGA GTGCTTCTCC	60
TGACTGGTGC GAGAAGAACA TTTTCTATAT ACTTCCAGGT GCTTTTATAT TCCTTTCGAG	120
AAGAAAATAA AATTATGAAC TCAGGATTTT GCAAGTATTC TGTGTTTCTC CTGGAGTAGG	180
TAGTCCTTCT TCTTTTACCC AGCCACTTTC CCTATTCTTG AAATGTGGAT CTCTCTTCTC	240
TACATGTTTT ACCTCCATGA TTTGGATTGG AAAAAGCTGC TTTTCTTTTG GTTCCACTTT	300
TCAGATTCAA CATAGAGAG CTCCTAGGAT GCAGTCGTCT TTCTGAAGCG CTTCCAGGGA	360

375

#### (2) INFORMATION FOR SEQ ID NO:81:

#### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:81:

AGGTCTTAAN CCCAACCCG TCCCACCCAC AGGGTNCCAG CGTGGTGACT ACAGGCGACC 60
CTCCCTATGT CGGGTCTAGA ACGCCCCCAG CTGGAACGAA GGGAAGAAGC TAATTACAGT 120
GTCTTCCTTT GCACTGACCN NCCCCCCCC CGCCCCCCG CCACCAGTTC AGTCCAGGAG 180
GGGACTTGTT AGCCCGTAGC CCATCTTCCC CACTATCCTG GCGTGTTGGG CTCGTGAATG 240
CCTCCTAGCC AAATCACTAG AGTGCAGTGA CCCCAGCCTC CTTCCTGTGC CAAGATG 297

#### (2) INFORMATION FOR SEQ ID NO:82:

#### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 361 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:82:

GCAACAAGGA ATGAGACCCC CAATGCCGCC TCATGGTCAG TACGGTGGTC ATCATCAAGG 60
CATGCCAGGT TACCTTCCTG GTGCTATGCC ACCGTATGGG CAGGGACCGC CAATGGTACC 120
CCCTTACCAA GGTGGGCCTC CTCGACCTCC GATGGGAATG AGACCTCCTG TAATGTCGCA 180
AGGTGGCCGT TACTGATCTT ACTTCATCCA ATCTAATAGG TTTTGAGATT AAACCTTTTC 240
TCAACTTGTG CTGGTTTATA TAGCCAAGCT TCCGTCAATA AGGCTTTATT GTTGACTTTA 300

ACAAACATTA TATTACCACA TACCAGGGAC TATTGGACAA TTATTTTACA AGGGGAAAAT	360
T	361
(2) INFORMATION FOR SEQ ID NO:83:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 380 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:83:	
CCTGGCTGCC TGTGCCTCAA CCCCACTCCC AGGGAGACCA AAAGCCTTCA TACATCTAAA	60
ATTGGGGGG GGGGGGGGA CAAAAAAGGG GGCCCACGAT GGCAGACCAT TCGAAATAAA	120
ACAAAAAGAC CAAGTTTTAA GGCGAGAGTT TAAAAAAAAT TTGGACTACA TAATTTACAC	180
CAAGGCAATG TTATCACCCT GCGCCTGTTT GGACTTGGGC GGGGACTGGC CCTTCTCCTC	240
AGGGGGAAAT GGGGTGGCTT TTGGGAAGGC AAGGGACTTC CTGTAACAAT GCATCTCAGG	300
GTATTTGGAA TGACTATTAA AAAAAAAAGG GCCAATGTTA CAGTCAAGGT CCTGGGCCCA	360
ACCTTGGAAC TTTTGGGGGT	380
(2) INFORMATION FOR SEQ ID NO:84:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 392 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:84:

CCCAAACATC	TACAAACACA	ACTAACACCA	GAAAATAAAA	CAAAACATTT	AGTCACCTTA	60
TAAAAGTATA	GGAGATAGAA	ATTTAACTTG	GCGCTATAGA	GAAAGTACCG	CAAGGGAAAG	120
ATGAAAGATA	AAATTAAAAG	CACCACACAG	CAAAGATTAC	CCCTTGTACC	TTTTGCATAA	180
TGAGTTAGCT	AGAACAACCT	AACAAAGAGA	ACTTCAGCTA	GGCCCCCGA	AACCAGACGA	240
GCTACCCATG	TACAATCTAT	TTCAGGGGTG	AAACTCCGTC	TATGTTGCAA	AATTAGTGAG	300
AAGGTTTTTG	GGTAGAGGTG	AAAAGCCTAT	CGGGCCTGGT	GGTAGCTGGT	TGCCCCGAAC	360
CGGATTCTTA	GTTTCACCTT	TTAAACTTTC	CT			392

#### (2) INFORMATION FOR SEO ID NO:85:

# (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 307 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:85:

## (2) INFORMATION FOR SEQ ID NO:86:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 390 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:86:

AAAGGGTGGG GCANTTGATG CTGGTTTCTT CCTCTGCGTT TTCCGTAATT CCTTCTTACT 60
AGGGCTTTAT AATTCTAATT TTTCTTGGTT AAGTAGTAAT ATAAAACACA ATCAGGAACA 120
CTCTTTCTTT CCAAGTAGGA TGCAATTAGT CCAAAGTTTT TTGGATGCTG GATAAACTTG 180
TCCTTAAAGA TCTCCTTCTC GTGGTCAGTC CAAACATTCA TAAACTGCCT ATCTTTATAA 240
ACTTTCATAG GATCTTCCAT GAGTCCATTC ATGTTGATGA ATTTGACTCG TCTCTGTTCT 300
GCATCAAACA TCATAGGTGG GATCACAGAG AGTTGCCGCA TTTGTTTCTC ATTATTTCTC 360
CTTCTCAGAG AGCCCATCAA TAATTTTCAG 390

## (2) INFORMATION FOR SEQ ID NO:87:

#### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 504 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:87:

60	TTGGGCAGAG	TTTCAGCGAG	ACAAGAAAGG	AAAGAGAACA	ATTCGAAAAC	GTTTCCAGAA
120	AAATTATTGA	GAGATTTCTG	GAGCGAGCAT	CGATTGCTAG	CTTTCAGCCA	GGGAGCTGGT
180	TGATCCCACC	CAACTCTCTG	ACAAATGCGG	ATAATGAGAA	GAGCAGGAGA	TGGGCTCTCT
240	GACTCATGGA	AACATGAATG	CAAATTCATC	AGAGACGAGT	GATGCAGAAC	TATGATGTTT
300	CTGACCACGA	ATGTTTGGGA	CAGTTTATGA	AAAAGATAGG	GAAAGTTTAT	AGATCCTATG
360	TAATTGCATC	AACTTTGGGC	GCATCCAAAA	AGTTTATCCA	TTTAAGGACA	GAAGGAGATC

CTACTTGGGA	AAGAAAGGGT	GTTCCTGATT	GTGTTTTATA	TTACTACTTA	ACCCAGGAAA	420
ATGGGGATTA	TTAAAGGCCT	AGTAAGGAGG	GATTTACGGG	AAACCGCAGA	GGAAGGAACC	480
CGCAGGCAAT	TGCCCCCCT	TTGG				504

## (2) INFORMATION FOR SEQ ID NO:88:

# (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 444 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:88:

CCTACCCGGT TTTGGG	атаа тстсасатат	TGTTACCTAC	TATTCAGGTA	AAAAAGAACC	60
CTTTGGCTAC ATGGGA	ATAG TTTGAGCCAT	GATATCAATC	GGCTTCCTGG	GCTTTATCGT	120
ATGAGCCCAT CACATG	TTTA CTGTAGGAAT	GGATGTAGAC	ACACGAGCAT	ACTTTACATC	180
AGCCACTATA ATTATT	GCCA TTCCTACCGG	GGTGAAAGTA	TTTAGTTGAC	TGGCTACTCT	240
TCATGGAGGT AATATT	AAAT GGTCCCCTGC	TATATTATGA	GCCTTAGGCT	TTTATTTTCC	300
CATTTACCGT AGGAGG	GCCT AACGGGGATT	GTACTAGCAA	ACTCTTCACT	AGACAATGTT	360
CTTCACGGCA CATATT	ACGT GGGGGGCCAC	TGTCACTATG	GCTTGTCAAT	AGGGGCAGTA	420
TTCGTATCAT AGGGGG	GTTC GTCC				444

# (2) INFORMATION FOR SEQ ID NO:89:

# (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 421 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:89:

A						421
GGTTAACTAA	ACCATCAAGG	TTGTACCAAG	TTTTGGATTG	GTAACTGGTN	AAATACAAGT	420
AACTGGTTTT	TNAACTACTG	ATGGACTTAA	ACAACACAAA	GGATGCTGGG	ATGCTAACTT	360
GCCATGGGAT	TCTCCCCTG	ACCTCTCCCC	TCAGCAATTC	CTGCAAAGGG	ТТАААААТТТ	300
TATGGGTGGG	GGAAAAAAAT	GTTCCTGTTC	TCACTTGTAA	GGCTGGTTTT	TGGCTTTTCT	240
AGCATGTACT	CCTGACTTGT	CACTGACTTT	CCTCTGGAGC	AGGTGGCTAG	AAAAAGAGGC	180
CTCTCCTCCG	GCCTCCTCAG	TTTTGCCAAC	TGCAATTCAT	TTGAGTTACT	GTTTATGCTA	120
GCAATCCTGG	CCTGGGGGCC	TGAGGCCCTT	CCCCTGCTCC	AGGCTGTCAT	CTCCTGCCTC	60

## (2) INFORMATION FOR SEQ ID NO:90:

# (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 406 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:90:

60	GTCCGTGGGC	AGGTCTATGG	CCCCACTGTC	TCGCCCCATC	AGTCCCCTGC	CGTATGAGGC
120	ATATTGGTGT	GCTGACAATG	GACAGCCCTG	TTGAGGGAGG	TGGAATTGGG	CAGAATGGGG
180	CCACCACCTT	GGGCAGGACA	ACCTCAACCC	GCTTCAGCTT	AACCGAGCCG	AATCAACATT
240	GCCCTGGGTG	CTTGCAAACA	CCCTGCAGGC	GACCCTCAGG	AAGCTGGAGC	GAGAAACCAC
300	CCACACTTTT	TCCTTCAGCA	GGCCCAGTCT	TAGCCAGCTA	CAGTCCCTGT	GACCCCACAC
360	CAAGGGCTTC	GGGTCCCAGC	TGGTAAAAGC	AGGTGGAAGC	GGTTTCTGTC	ATCCTGGGCA
406		GCAGGA	TTAACGGTGG	ACTTCAATTC	CCAGCCAGTA	AGGTTCAGCG

/ i )	SECTIENCE	CHARACTERISTICS:
1 1	SECUENCE	CHARACIERISTICS:

- (A) LENGTH: 363 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:91:

GCCACCTGAC	CCTCCTAACC	CATGGCTGTC	TGATGATACT	ACTTTCTGGG	AACTTGNAAG	60
CAAGCAAAGA	ACCAAGTCAG	CAGAGGGTAA	AACGATGGGG	TTTTGGCATG	GATGAAGCAT	120
rgaaagaccc	AGTTGGGAGA	GAACAGTTTC	TTAAATTTCT	AGAGTCAGAA	TTCAGCTCAG	180
AAAATTTAAG	ATTCTGGCTA	GNCAGTGGAA	GNACCTGAAA	GNAAAAGGTC	TAATNAGGAG	240
AAAGTTCCCT	TTCCCGGAGA	TTCAGGGAAA	ATATGGGCAA	AGNAATTTTC	TTGGGCTCCC	300
rgggaggctt	CCCCAGNTGC	CCAATCCAAA	CCTTGGGGTT	TTCCTNAAGG	AGGCTNATGG	360
ATT						363

## (2) INFORMATION FOR SEQ ID NO:92:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 193 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:92:

GAGAAAGACA	TAATGGTTAT	GGCATTGGCT	TGAAACCAGT	TAAAGAGGGT	TCGATTCCTT	60
CCTTTCTTAT	TTTAATAGTA	CGTAAGTTGG	CTCTTCAAAT	GTGTGGTACG	GAGGAGGACA	120
TCCATGCAAT	CATTCAAGAT	TAGTTGTGGT	TAATTCTACT	ATGGCCACTT	CTCGCTTGGA	180

TGGCAAAGCT TCT	193
(2) INFORMATION FOR SEQ ID NO:93:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 266 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:93:	
CCGCCAGTGT GCTCTAAAGT GTGGTACCCT GGTGGAGACC TGGCCAAAGT ACAGCGAGCT	60
GTGTGCATGC TGAGCAACAC CACAGCCATT GCTGAGGCCT GGGCTCGCCT GGACCACAAG	120
TTTGACCTGA TGTATGCCAA GCGTGCCTTT GTTCACTGGT ATGTGGGTGA GGGCATGGAG	180
GAAGGAGAGT TTTCTGAGGC CCGTGAGACA TGGCTGCCCG TGAGACATGG CTGCCCTTGA	240
GAAGGATTAT AGGAGGTTGG TGTGGA	266
(2) INFORMATION FOR SEQ ID NO:94:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 251 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:94:	
TCTTCTCCCA AAAACACTAA TCCATGTCCG TAACCCACTC AGCCTCCAGA CCCCAGAGGC	60
TCTCCCCCAC CCAGCTGCCC ACCTCTAAAG AGGATTCAAG GGGCTATAGT GTCACCCAAC	120
CTCATTTGCT GGACCAAATC TGGAGAACCC TTGAGCTAGG TGGCCCATGG GGTTGTCCCC	180

AGGTGGGGGA GCAGGGGAGA GAAAATGGTA GCCATTTTTA CATTGTTTTG TATAGTATTT 240

ATTGATTCAG G	251
(2) INFORMATION FOR SEQ ID NO:95:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 188 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:95:	
GTCAGACACA ACTTTCTGAA TCCTCTNAGG ANGGTGATCC AGTTCATGAA NATTCTCTGT	60
AAAATNANTN TGGNAAACTA NATNAGTGNN GATNCAGGTC TNGAGNNTCT CCTTCCAGTG	120
NCTAAAAAGT NCACAGANGN CAGGAACTNC CTATCTGCAT GCAGTCACCA GTTCTCATNC	180
TCTANGCA	188
(2) INFORMATION FOR SEQ ID NO:96:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 182 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:96:	
CCCAGCCTTC ATGAGCTGGT CATCAGGATA CTTTCTTATG GGNTNGANCA TGCCANTTGC	60
TTNTNCGNGT ANATGTAAGT TCATGNCAAC CNCATTTTT TTCTAGCCTN NGGNCTNAAG	120
GTNANTCGTC TCNTTANGCA GCNGANNCAG TTGNAGTCTN TCAAANGNNC ACAAANACCT	180
AA	182

(2) INFORMATION FOR SEQ ID NO:97:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS: <ul> <li>(A) LENGTH: 214 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul> </li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:97:	
GGGTTAAGTG ATAGGAGGAG AAGGGCTGAG TAGGTGGAGG GCTATTAGGG CATTTTCTCG	60
GTGTAAATGA TGGGTTGATA TTTTTAATGT GGTGTGTGT	120
TAAGTATGTA GAGGGAGTAT AGCCCTGTAA TGATGATATT AGTACCCATT AGGATAATGG	180
TTATGTTTGA TCATGAGAAG GAGGCTATTA CTAC	214
(2) INFORMATION FOR SEQ ID NO:98:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 248 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:98:	
ACAACTTTGG CCGTGGAGGA AACTTCAGTG GGCGAGGTGG CTTTGGCGGC AGTCGAGGTG	60
GTGGTGGATA TGGTGGCAGT GGGGATGGCT ATAACGGATT TGGTAACGAT GGAAGCAACT	120
TTGGAGGTGG TGGAAGCTAT AATGATTTTG GCAATTACAA CAATCAATCT TCAAATTTTG	180
GACCCATGAA AGGAGGAAAT TTTGGAGGCA GAAGCTCTGG CCCCTATGGT GGTGGAGGCC	240

AATACTTT

(2) INFORMATION FOR SEQ ID NO:99:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 136 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:99:	
GCGAAGGACC TCCTGCACAC GTCCCCGGAA GAGGAGAAGA GGAAGCACAA GAA	AGAAGCGC 60
CTGGTGCAGA GCCCCAACTC CTACTTCATG GACGTGAAGT GCCCGGGGTG CTA	ACAAAATC 120
ACCACCGTGT TTCCCT	136
(2) INFORMATION FOR SEQ ID NO:100:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 203 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:100:	
ATCTGCCATT TTAGACTTAA AGGAAATATT CCACGTGTTA TTTACGATCC AGA	AGTTTTT 60
GAGTAATTCT GGCTTTTAAA AACTAATGAA GTCCTTTTAG TGTAATGGTA ACA	AGTGCCAC 120
ATAGTGAATG CCACTGAAAA GGTCAACAGC TACATTTTGG TGTTGTGAGC ATT	TATACCGC 180
AAGACTTACA TAGTTCAGTA TAA	203
(2) INFORMATION FOR SEQ ID NO:101:	

(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 246 base pairs(B) TYPE: nucleic acid

(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:101:	
GGTCCTTGTA TCACTTTCAT TTGCATGACG TTCCTTGCAG GTGGTGGGAG CCTGGGCTTT	60
TGGGGAGCCA GAACCTTCTG GCCCCCAGAA TCACCCCCTC CTAGCCCCCT CTAGTCCAGT	120
TTGCCTCCCC TGCCCCCATT TTCCAAACCT CTTGTCCCCT CCCCTCCCCC	180
CCAGCTGGTG TGGAAGTGTT CTCGGAGTTC AGTGTGTATG AAGGACAATA GTTTGCACTG	240
GAGTTT	246
(2) INFORMATION FOR SEQ ID NO:102:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS: <ul> <li>(A) LENGTH: 224 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul> </li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:102:	
GGATGATTGC CCAGAGCGTG ACAGCGGTCG CAGGGCTGGT GTCCTACCCC TTTGACACTG	60
TCCGCCGTAG ATGATGATGC AGTCTGGCCG GAAAGGGGCG GATATTATGT ACACTGGGAC	120
GGTGGACTGC TGGAGGAAGA TTGCAAAAGA TGAGGGAGCC AAGGCTTTCT TCAAAGGTGC	180
CTGGTCCAAT GTGTTGAGAG GCATGGGCGG AGCTTTCGTA TTGG	224
(2) INFORMATION FOR SEQ ID NO:103:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 270 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li></ul>	

## (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:103: ACGACTCACT ATCAGGGCGA ATTGGGCCCT CTAGATGCAT GCTCGAGCGG CCGCCAGTGT 60 GGGAAAAGGA GAGGCATGCC GCGGAGGTGC GCAGGAACAA GGAACTCCAG GTTGAACTGT 120 CTGGCTGAAA CGATGGAGGG TATGGCACGC CCCACCATTA GTAAATCCCC CTGCCTATAT 180 TATAATGGTT CATGCGATAT CAGTATGGGA AATGTATGAC ATGGTTTAAA AAGAACTCAT 240 TATAAAAAAAC AAAAACAAAA AAACAGAATC 270

## (2) INFORMATION FOR SEQ ID NO:104:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 280 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:104:

AGCATGCTGA	TCCCCATTGC	CGTGGGCGGC	CTGCGGGGGC	TGGTCCTCAT	CGTCCTCATT	60
GCCTACCTCA	TCGGCAGGAA	GAGGAGCCAC	GCGGCTACCA	GACGATCTAG	CAGGGCTGCG	120
ACACGTCGGG	CCGGCTGCCA	CTTCCGGTCC	TCCGCTCGTC	CCCTGAGCTT	AGGTTGGCGT	180
GGAGGGCGGC	ACGTTTCTTG	CAAACTGATT	TTCAAATCTG	CTTTATCCGA	TGTGAAGTTC	240
ATCTTGCAAC	ATTTACTATG	CACAAGAGTA	TTGAAATGAC			280

## (2) INFORMATION FOR SEQ ID NO:105:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 529 base pairs
  - (B) TYPE: nucleic acid

(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:105:

TTCATTATGA AAATATCAAT AAATATGTCA TTAGTTTACA TTCAACTCTT TGTTATAAAA 60 TTAAACTTTT TAATAATAAG TGAAATGGGT GATTTCCCCC TGGAGGGATG TCAACAGGCT 120 TAAAATCATT TCCCGGTTTC ATAAAATACA AACTCCTTTG AAAAAGGGAC AAAATCTCTT 180 CATACTTTTG GGGAACGGAT ACTGTGTAAG CCCTCTGTAC AAAAGTTTGG GGTTTTCATT 240 GTTACACTTT GGGGGTTTCC CTTTTCAAGG GGCCCCCCTG TGGGGGGTTT TTTTTTTATG 300 CGGGCAACCA ACTAAATTTT TTTTCCCAAA TGGAATGCCC CGCCCTTTTT TTTCCTAATG 360 TTTTTTGCAA TAAGGGGGC CAAAACCGGG GGAGGGTTTT TCCATGAAAA GGGTTCCTTA 420 AGGGTGAGGG GGAACCACGC TTTGGGGGGG GGTTTTCCTT TTAAGTTTGT GGCCCCAGTA 480 GGGGGGAGAA AGCCCTCCC CCGGGAAACC AGGGTTTGGT TCCCCACGG 529

#### (2) INFORMATION FOR SEQ ID NO:106:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 245 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:106:

CCTGAGAATA GGTCTAGCAT TGTTCCACAC AAAACATTTG AAGGACCCAA ATTTGTAGCA 60

AATTCCATGG CAGTGAAGTT GAGCTGCTAT AGTTAATAAA CTGGGCATTC TTGATACTTG 120

AATATGGAAT ATGTGCACAA GGGAAGTAAA TACAACATTG CACTTTATAA GCACTGTATT 180

GTTAAGTGGG AAATGCAATG TCTTTAAAAT AAAACTGTAT TTAAAATTGG CGCCCCAAAA	240
AAAAA	245
(2) INFORMATION FOR SEQ ID NO:107:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 236 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:107:	
CCTGAGAATA GGTCTAGCAT TGTTCCACAC AAAACATTTG AAGGACCCAA ATTTGTAGCA	60
AATTCCATGG CAGTGAAGTT GAGCTGCTAT AGTTAATAAA CTGGGCATTC TTGATACTTG	120
AATATGGAAT ATGTGCACAA GGAAAGTAAA TACAACATTG CACTTTATAA GCACTGGTAT	180
TGTTAAGTGG GGAATGCAAT GTGCTTAAAT AAAACTGTAT TTAAAATTGG CACCAA	236
(2) INFORMATION FOR SEQ ID NO:108:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 256 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:108:	
CTTTAGAGGA CACACACNCA CGGGGCCGCC GCCCCCAGT AGTCGGTCTT GTAAATGCGC	60
AGTGTCCTAG TGCCCGTTGT CTGCTACCCC GGCCTCGCCC CCGCCCCGCC	120
GACATCCGGG CCCACTCCTT ACCCATCCGG GCCTCCGGCC CCCACTCATC TGCCCTAGAG	180
CGCTCTGTAG AAGGGTGAAT TAGAGTTGTA TTTCTCTTCA CTGGATGTTT CTTATTTATA	240

AAGATTTGAT CTGTTC	256
(2) INFORMATION FOR SEQ ID NO:109:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 272 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:109:	
GCGACACGTT CTGTCATTTA TGTTCCTCCT CCTTTTGCTG CTGCTGCCAT CAATGAAGCT	60
GTTGAGGCGG AAATGCCCTT GGTTGTGTGC ATTACTGAAG GTATCCCACA GCAGGACATG	120
GTGCGGGTCA AGCACAAACT GCTGCGTCAG GGAAAGACCA GGCTGATCGG GCCTAACTGC	180
CCTGGAGTGA TCAATCCTGG AGAATGCAAA ATTGGCATCA TGCTGGCCAT ATTCACAAGA	240
AAGGAAGAGT TGGTATTGTG TCCAGATCTG GG	272
(2) INFORMATION FOR SEQ ID NO:110:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 264 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:110:	
GGAAAGATGG GATTGTATGA AACACTGCAT TTCACAGCAA AGACCTCAGT CCAGAACACA	60
ACACAGGGGA CCAAGTGGAT TCAGGTGTGG TCAAAACTCT GGGGATCACA GTGGGGATAC	120
CACCTCCAGG GCTGGTGACA GATTCAGGAC CCTCCTGGCA CACCCGGGAC CCCAGGGATA	180

AAAGGAGAGA AAGGGCTGCC AGGGCTGGCT GGAGACCATG GCGAGTTTGG GGAGAAGGGA	240
GACCAGGGAT TCTGGAATCA GAAA	264
(2) INFORMATION FOR SEQ ID NO:111:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 257 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:111:	
TTCCAGACGG GAGATTGATT GGAAAAAAA GTAATGTGTT CCATTTAAAA TTTTGGTATA	60
TGGCATTTTC TGACTTAGGA AGCCACAATG TTTTTGTTCT TGGCCCATCA TGACATTGGG	120
TAGCATTAAG TTTTGTGCTT CCAAATCACT TTTGTTTTTA AGGATTTCTT GATCTTGTTA	180
TAGCCTGCCT TCAATTTTGA TCTTTATTCT TTCTATTTGT CAGGTGTACA GGATTACCTT	240
TTTTAGCCTT CTGTCTT	257
(2) INFORMATION FOR SEQ ID NO:112:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 286 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:112:	
ACCCTTTCCT ATGTGTTTTA TCTAATTATT TTGGTTGTTA ATATGGTAAT AATTAAAAGT	60
CAAGGTAAAT TTTAAATATT AAGATTTCTG ATTTATTGAG CTTGACTTAT GCCACCACGC	120
TTATGTAAAA TGAAAGTAGC ACCATGGTGA AACTGAAAAA AGTTGCTCAG TTGTAACAGT	180

TTTGATTTAT TCTTTCTTGT GACCTCTTTC CCTTATTGTC TTGAACCATA GCAAAAGGAT	240
ACTGCATCTC TTAATAATTG TAGTGCTGAG GTTATTGAAG TTATAT	286
(2) INFORMATION FOR SEQ ID NO:113:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 204 base pairs</li></ul>	
(B) TYPE: nucleic acid (C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:113:	
GTTATATTGA CTCCTACAAA CATAATCGTA AAGTGAATCT TTGCTCAAGT GTTGTCAAGG	60
GTATATCCTG AGAATAGGGG GAATCAATGG ACGAAGCCTC CTATGATAGC GAATACTGCT	120
CCTATTGACA AGACATAGTG AAAGTGGGCC ACTACGTAAT ATGTGTCGTG AAGAACAATG	180
TCTAGTGAAG AGTTTGCTAG TACA	204
(2) INFORMATION FOR SEQ ID NO:114:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 74 base pairs (B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:114:	
GCTATAGACA CACAACTCTC TCTCTCTCTC TCTCTCTCTC TCTCTCTC	60
TCTTTCACTC ACCA	74
(2) INFORMATION FOR SEQ ID NO:115:	

(A) LENGTH: 230 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:115:	
ACGCTCGTTT TCCAAAGAGA AGAGCGTTGT TTAGAGTAGC GAAATTCGAA GGCTGCTTAG	60
GCGCATTGTA AAGCTGTTGG GGAAATAACT CCACAAGTTT CGTGAGTGGA AATGTAGTGC	120
TCGAAACACA TTCTGCTTTA AAAGGTTGTA ACAAATACAA ACAAATTTAA AAAAAGCTCT	180
GACAAATGTT TTGTGTGGGG AAGCGGGGTT CCAAAATACA GGGCGGCCCC	230
(2) INFORMATION FOR SEQ ID NO:116:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 96 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:116: TTGTCATCTC TTCAAGAATT GACAACAGAT TTTGGTTTTC TACTGTCATG TGGAACATTA	60
GGCCCCAGCT TCGGCTCCTT GTGCGAGGAA AATAAA	96
(2) INFORMATION FOR SEQ ID NO:117:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 277 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:117:	
GCATCTGATG GCCTTAAGGG TCGTGTTTT GAAGTAAGCC TGGCTGATTT GCAGAATGAT	60
GAAGTTGCAT TTAGGAAATT CAAGCTAATT ACTGAAGATG TTCAGGGCAA AAACTGCCTG	120
ACTAATCTCC ATGGCATGGA TCTTACCCGG GACAAAATGT GCTCCATGGT CAAAAAATGG	180
CAGACCATGA TTGAAGCTCA CGTTGATGTC AAAACTACCG ATGGGTATTT GCTTCGTCTC	240
TTTTGTGTCG GTTTTACTAA AAAACGCAAC AATCAGA	277
(2) INFORMATION FOR SEQ ID NO:118:	
<ul><li>(A) LENGTH: 148 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:118:	
CCTTCCAGAA CCCTGAGGAG CAGGATGAAG GCTGGCTCAT GGGCGTGAAG GAGAGTGACT	60
GGAACCAGCA CCTAGAGCTG GAGAAATGTC GGGGCGTCTT CCCCGAGAAC TTCACCGAGC	120
GGGTTCAGTG AGGGCAGCAG CTGCTGAG	148
(2) INFORMATION FOR SEQ ID NO:119:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 244 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:119:	
TCTACGACCA GGCTTTGCAG CAGGCCGTGG TAGACGACGA CGCCAACAAT GCCAAGGCCG	60
TGGTGAAGAC CTTCCATGAG ACGCTCAACT GCTGTGGCTC CAGCACGCTC TCCGCGCTGA	120
CCACCTCCAT TCTCAAGAAC AACCTGTGTC CTTCAGGCAG CACTGTCATC AGCAACTTCT	180
TCAAGGAGGA CTGCCACCAG AAGATCGATG ACCTCTTCTC GGGAAAGCTG TATCTCATTG	240
GCAT	244
(2) INFORMATION FOR SEQ ID NO:120:	
(A) LENGTH: 220 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:120:  CACCTAAAGA GTTGCCAGGT CTCTGTCACA CATCTCCATT CACAACAGAT AGGGTGTGAT	60
GCTTTTACTA AACTTTCTTA TCCTAGGACC TGCTGCAATG GTTCAAGGAA CTGGAAAGAT	120
GCTTTCTCTT CTTCCTTTCC CTCACTCCAT CCCTGTCTTT ACTCCTCAGA CTTCCTGTAA	180
AACATTAGTA AGATAAGAAT TAAAAGTCAC ACGAATCCAC	220
<ul> <li>(2) INFORMATION FOR SEQ ID NO:121:</li> <li>(i) SEQUENCE CHARACTERISTICS: <ul> <li>(A) LENGTH: 65 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul> </li> </ul>	

ATTTGGCTCA GTGGCAGAGC GCTTGCCTAG GAAGAGCAAG GCCCTGGGTT CGGTCCCCAG	60
CTCCG	65
(2) INFORMATION FOR SEQ ID NO:122:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 65 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:122:	
GGGAGGAGGA GGAAGAGGAG GAAGGAGAGG AGGAGGA	60
CCTCT	65
(2) INFORMATION FOR SEQ ID NO:123:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 163 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:123:	
GTAATTATTG GCTCAACTTT CCTAATTGTC TGTCTACTAC GACAACTAAA ATTCCACTTC	60
ACATCAAAAC ATCATTTCGG ATTTGAAGCC GCAGCATGAT ACTGACACTT CGTAGATGTA	120
GTTTGACTAT TCCTATACGT TTCTATCTAT TGATGAGGAT CCT	163
(2) INFORMATION FOR SEQ ID NO:124:	
(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 203 base pairs

<ul><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:124:	
GATTTGGAGA AGCCTTCGCA TCAAAACGAG AAGTACGCTC AATTTCCTAC TCCTCAACTA	60
ACCTAGAATG ACTGCATGGA TGCCCCCCAC CCTACCACAC ATTCGAAGAA CCTTCCTACG	120
TAAAAGTTAA ATAAGAAAGG AAGGATTCGA ACCCCCTACA ACTGGTTTCA AGCCAATTTC	180
ATAACCATTA TGTCTTTCTC AAT	203
(2) INFORMATION FOR SEQ ID NO:125:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 231 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:125:	
AAGGATAATG CTGTTTATTA AAAATATACT CAGGAAGTCA GGGTATTGAT GCAATTTTAC	60
ATACGCACTT GGGTAGTCTG AAGTTCCATT ATTCCAGCAG TTTATATAAA TGTTTCAGAT	120
CAAAAGAGAA AGAAAACACT TTACAGAGAC CAGCAGTTGC TTATCAGTTT GGTCATGAGT	180
CTGCTTGTAG TAAAAATAAA ACTCCCTCTT GCATTGCTGA AGAATGTCCT T	231
(2) INFORMATION FOR SEQ ID NO:126:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 269 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:126:						
CAGCTCCCTA	GTACTTTACT	ATTATTTCAC	TAATACTAAC	AACAAAACTA	ACACACAA	60
GCACAATAGA	CGCCCAAGAA	GTAGAAACAA	TTTGAACAAT	CCTCCCAGCT	GTCATTCTTA	120
TCCTAATTGC	CCTTCCCTCC	CTACGAATTC	TATACATAAT	AGACGAGATT	AATAACCCAG	180
TTCTAACAGT	АААААСТАТА	GGACACCAAT	GATACTGAAG	CTATGAATAT	CTGACTATAA	240
GACCTATGCT	TTGACTCCTA	CATAATCCC				269
			-			

#### (2) INFORMATION FOR SEQ ID NO:127:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 347 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:127:

CCATGCTTGT	GACAGACATA	CAGCCACTTC	CAACTAAAGC	AAGCCTCTGC	TTCCTGCTAC	60
CTGCATGGAG	CCCACTGTGA	CACTCAGACC	ATCCCCGGTC	ACTCACTCGT	GTCTGAGAAT	120
CTCAGTGAGA	GCTGCCTCTG	TCACGGACGG	AAGCCAACAC	AGCCACCTCT	CGACCTGGCT	180
CCCCACAGCA	CCCACCCTCC	CTGCATGCAG	CTGTCCCTGC	TAACCCCCAA	TGTTATGTTA	240
CACTGTGTAA	ATCCCCACTG	CTGCCGTGTG	TGGGTTGTGT	ACGTCGTCAT	GTCCTGGTTT	300
ATAACTATGO	TGCGGTCGGG	AAGGATTCCT	GTAATGCTGC	TCTAAGA		347

# (2) INFORMATION FOR SEQ ID NO:128:

# (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 323 base pairs

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear

CGTTTGTTCA ACGATTAAAG TCCTACGTGA TCTGA

(xi) SEQUENCE DESC	RIPTION: SI	EQ ID NO:12	3 <b>:</b>		
CCTAGACTCA CAAGTCAAAG	ТААТАСТААТ	ATCTTATTGA	CCCAATTATT	GATCAACGGA	60
CCAAGTTACC CTAGGGATAA	CAGCGCAATC	CTATTTAAGA	GTTCATATCG	ACAATTAGGG	120
TTTACGACCT CGATGTTGGA	TCAGGACATC	CCAATGGTGC	AGAAGCTATT	AATGGTTCGT	180
TTGTTCAACG ATTAAAGTCC	TACGTGATCT	GAGTTCAGAC	CGGAGCAATC	CAGGTCGGTT	240
TCTATCTATT TACAATTTCT	CCCAGTACGA	AAGGACAAGA	GAAATGGAGC	CTCCTTACCA	300
TAAGTGCTCC CAACCAATTT	ATG				323
(2) INFORMATION FOR SE	Q ID NO:129	9:			
(i) SEQUENCE CHAR (A) LENGTH: (B) TYPE: nu (C) STRANDED (D) TOPOLOGY	335 base pacted acid	airs			
(xi) SEQUENCE DESC	RIPTION: SE	EQ ID NO:129	):		
GCTTCAATTT ACTAGTTCAA	СТТАТАТААА	AACAACCTAA	TGGGCTAAAA	СААААТАААТ	60
ATGAACTAAA AAATTTCGGT	TGGGGTGACC	TCGGAGAATA	AAAAATCCTC	CGAATGATTT	120
TAACCTAGAC TCACAAGTCA	AAGTAATACT	AATATCTTAT	TGACCCAATT	ATTGATCAAC	180
GGACCAAGTT ACCCTAGGGA	TAACAGCGCA	ATCCTATTTA	AGAGTTCATA	TCGACAATTA	240
GGGCCCACGA CCTCGATGTT	GGATCAGGAC	ATCCCAATGG	ТСАСАВАССТ	<b>Α</b> ΤΤΑ <b>Α</b> ΤΕ <b>Κ</b> ΤΤ	300

335

#### (2) INFORMATION FOR SEQ ID NO:130:

#### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 298 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:130:

AGAGATATCG GAACCCTCTA CCTATTATTT GGAGCCTGAG CAGGAATAGT AGGGACAGCT 60
TTAAGTATTC TAATTCGAGC TGAACTAGGA CAGCCAGGCG CACTCCTAGG AGATGACCAA 120
ATCTATAATG TCATCGTCAC AGCCCATGCA TTCGTAATAA TTTTCTTTAT AGTAATACCT 180
ATAATAATTG GAGGCTTCGG GAACTGACTT GTACCACTAA TAATTGGAGC CCCTGATATA 240
GCATTCCCAC GAATAAATAA CATAAGCTTT TGACTGCTTC CTCCATCATT TCTACTCC 298

## (2) INFORMATION FOR SEQ ID NO:131:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 329 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:131:

GAGCTGTTGC CAGTGTAAAG ACAGCAAACA TGGACACTCT CGCACTGTGC ATCACAAAGC 60
TAACAAATCG AAATCTTGAA TGCAGTCTGT CCTAAGTCCA GGCAAGTGAC AGCCATGTGT 120
GTCTGCAGTG CTGTGTCACC ACGTCCTGCA TTGTTGGAGC TGCTGCAGGG ACACTGAGAT 180
GAGCAGGTTC TTTGGAAAGA ACTGTTGTGC TCCTCAAAGC AGTGTTCAGA TTTTAAAGGT 240

300

329

224

TCTTAGCCTC CTCAGTTCCT TATGTGGAAC TGTAGGATCC CCTTCATAAA TTTTTAAAGT

GCTTATGTGA TCCAATTGGT CTACATTTT

CACCGGGAAG GTCACAGACG ACTTCAGGCT TCAGGCGCAA CGTC

(2) INFORMA	TION FOR SI	EQ ID NO:13	<b>2</b> :			
(	A) LENGTH: B) TYPE: nu	RACTERISTICS 224 base particleic acid DNESS: single: 1: linear	airs			
(xi) SE	QUENCE DESC	CRIPTION: SE	EQ ID NO:132	2:		
CTTTAGAGAA	GGCAGGTCTT	ACAAACACTA	CAGAAAAGCC	GTTTGGACGT	AAAAATCCAA	60
GGAGAAAGGA	GTCATTAGGA	AATGTAACAT	AGGACACAGA	ACGCATGTTG	TGTGATGGTC	120
ССТТСТСТТС	CGTGTGGTTC	CAGAATATGC	TCCTGACCCC	AGAGCCGCCA	CCTGAGCGCG	180